

# Welcome

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Congratulations! You are now the proud owner of one of the most advanced and effective medical recirculating air cleaners available. Your new FilterQueen® Defender® helps remove the many problem-causing pollutants and allergens that can linger in indoor air.

The FilterQueen® Defender® Room Air Cleaner, working along with the FilterQueen® Majestic® Surface Cleaner, provides you and your family with the cleanest possible indoor air.

Health-Mor is dedicated to our customers and we pride ourselves on the quality and performance of our products. If you ever have any questions, comments, or need service or parts, please call your local Authorized FilterQueen® Distributor or call 1-440-846-7800.

Please take a few moments to read all of the sections in this manual and familiarize yourself with your new Defender®. We hope you enjoy all the benefits that years of fresh, clean air can provide.

Note: All export Defender® models are manufactured of materials equivalent to the U.S. model which is recognized as a Class II Medical Device by the FDA. The export unit's performance is similar to the U.S. model.

## IMPORTANT SAFETY INSTRUCTIONS

When using an electrical appliance, basic precautions should always be followed, including the following:

**READ ALL INSTRUCTIONS BEFORE USING YOUR FILTERQUEEN® DEFENDER®**

**WARNING – To reduce the risk of fire, electric shock, or injury:**

- Do not use outdoors or on wet surfaces.
- Do not use with damaged cord or plug. If appliance is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service center. If the supply cord is damaged, it must be replaced by the manufacturer or an Authorized FilterQueen® Distributor.
- Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- Do not handle plug or appliance with wet hands.
- Turn off all controls before unplugging.
- Do not use near presence of oxygen or other flammable gases.

**WARNING** – To reduce the risk of electric shock, this appliance has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way. This product is to be serviced by an Authorized FilterQueen® Distributor only.

### TECHNICAL SPECIFICATIONS:

#### Motor 120V

- Brushless motor designed for long life
- 1/20 HP, 120V 60Hz
- 29W (low), 45W (medium), 80W (high)
- 0.24A (low), 0.38A (medium), 0.67A (high)



**HEALTH-MOR**  
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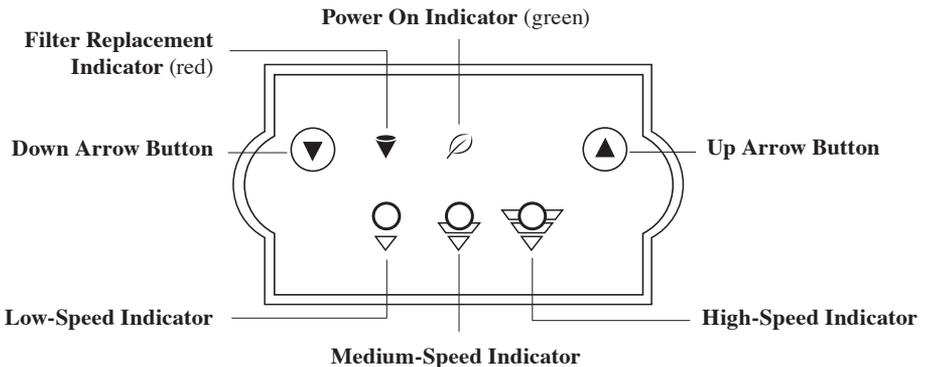
# Parts Description

The Defender® is a medical recirculating air cleaner intended to filter indoor air to remove over 99.99% of micro-particles as small as 0.1 micron in size, including dust, pollen, smoke, dust mites, dust mite allergens, cockroach allergens, bacteria, viruses, mold spores, and pet allergens. The Defender® is also intended to remove tobacco smoke and other household odors. Opening doors and windows may affect this medical device's performance.



1. **Carrying Handle** – Conveniently move the Defender® to any room in your home
2. **On/Off Power Switch** – Contains the international symbols “O” for off, and “I” for on
3. **Control Panel** – Allows the user to tailor the unit’s functions to his or her environment
4. **Clean Air Exhaust** – The exhaust is raised up off the carpet to minimize recontamination of your indoor air
5. **Medi-Filter® Cartridge** – Removes airborne particulates like pollen, mold spores, bacteria and viruses
6. **Enviropure® Charcoal Filter** – Made of activated charcoal, it helps to remove odors
7. **Air Intake** – Air enters the unit from 360 degrees for optimal air circulation
8. **Retaining Nut** – Remove for quick and easy filter replacement

# Control Panel



# Operation

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## Operating Instructions:

1. Plug unit into outlet.
2. Press power **On/Off** switch to the **On** (“I”) position. When the unit is turned on initially, all indicators located on the front panel will illuminate for two seconds. The green **Power On Indicator** (leaf) will illuminate and remain lit as long as the unit’s power switch is in the On (“I”) position.
3. The unit will start running at low speed. (Low-Speed Indicator will illuminate.)
4. The **Up and Down Arrow Buttons** located on the front panel can now be utilized for speed control as follows:

**Down Arrow Button:** Press to decrease motor speed selection (motor speed will not change if unit is already operating at low speed).

**Up Arrow Button:** Press to increase motor speed selection (motor speed will not change if unit is already operating at high speed).

## CAUTION:

- Liquid or spray scents, aroma therapy oils or other aromatic hydrocarbons with the Defender® could cause damage to the plastic housing. Damage to the plastic housing could expose moving parts.
- To reduce the risk of injury from moving parts, do not use with liquid or spray scents, aroma therapy oils or other aromatic hydrocarbons.
- Use of these substances will void your warranty.

## Filter Replacement Schedule

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Remember, to receive the full benefit from your Defender®, replace your filters regularly.

- Every **6 months**, replace your **Enviropure® Charcoal Filter**.
- **Once a year (for Perpetual Warranty\*)**, replace your **Medi-Filter® Cartridge**.  
\*Refer to the warranty for information on warranty extension (Perpetual Warranty).

**CAUTION:** Disconnect from power supply before servicing. Do not wash or try to clean filters in any way. Regular replacement is recommended.

**IMPORTANT:** The Medi-Filter Cartridge is built to meet the strict standard of filtering >99.99% of particles at 0.1 micron in size (three times smaller than HEPA). **DO NOT** use any other filter than the genuine FilterQueen® Medi-Filter Cartridge to maintain the medical grade performance of the Defender®. Call 440-846-7800 to find the nearest authorized source for genuine Medi-Filter Cartridges and Enviropure Charcoal Wraps or visit us at [www.filterqueen.com](http://www.filterqueen.com) for more information.

# Filter Replacement

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## **Filter Replacement Indicator:**

Your Defender® is equipped with a **Filter Replacement Indicator** located on the front panel. Anytime this red indicator flashes, it is recommended that you call your Authorized FilterQueen® Distributor or call 440-846-7800 to order a replacement filter. Anytime this red indicator stops flashing and remains solidly illuminated, it is recommended that you change your filter. To receive the full benefit from your Defender® and to extend your warranty, it is strongly recommended that you follow the filter replacement schedule. Under higher pollution levels, your filters will need to be replaced more frequently.

The **Filter Replacement Indicator** is operated by filter time in use and is controlled by an onboard timer. After 11 months of time in use of your Medi-Filter® Cartridge, the **Filter Replacement Indicator** will begin to flash. It will continue to flash until the you reach 12 months of time in use, at which time the **Filter Replacement Indicator** will stop flashing and remain solidly illuminated.

After replacement of your Medi-Filter® Cartridge, you must reset the **Filter Replacement Indicator** timer. When the timer has been properly reset, the **Filter Replacement Indicator** will turn off.

## **Resetting the Filter Replacement Indicator Timer:**

After replacement of your Medi-Filter® Cartridge, the **Filter Replacement Indicator** timer can be reset by performing the following steps:

1. Plug unit into outlet.
2. Press power **On/Off** switch to the **On** (“I”) position.
3. Allow unit to start running at low speed.
4. **PRESS** and **HOLD** both the **Up** and **Down Arrow Buttons** until the **Filter Replacement Indicator** starts to blink.
5. Release both the **Up** and **Down Arrow Buttons**.
6. While the **Filter Replacement Indicator** is still flashing, again **PRESS** and **HOLD** both the **Up** and **Down Arrow Buttons** until the **Filter Replacement Indicator** turns off.

If the steps above have been performed properly, the **Filter Replacement Indicator** will turn off and not flash again for 11 months. If the **Filter Replacement Indicator** remains on, repeat the steps again.

Note that in step 6 above, the **Filter Replacement Indicator** **MUST** still be flashing when the buttons are pressed the second time. The **Filter Replacement Indicator** will continue to flash for approximately 3 seconds after the buttons are released as required in step 5 above.

*Note: To order replacement filters, call your Authorized FilterQueen® Distributor or call 440-846-7800.*

# Filter Replacement

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Prompt filter replacement will prevent any potential damage to your Defender® that may result from its continued operation with a clogged filter condition. Inspect your filter for darkening of color which may cause noise or rattling due to filter being clogged.

To Replace your Filter(s):



1. After unplugging the Defender®, place the unit on its side and remove the retaining nut on the bottom of the unit by turning counterclockwise.



2. Return the unit to its upright position and lift off the top motor assembly.



3. Remove the Medi-Filter® Cartridge and Enviropure® Charcoal Filter. If only replacing the Enviropure® Charcoal Filter, remove the old charcoal filter from the Medi-Filter® Cartridge and discard it.

*Note: The charcoal filter is fastened with velcro.*



4. Place the new Enviropure® Charcoal Filter around the outside of the Medi-Filter® Cartridge and fasten with the velcro. If also replacing the Medi-Filter® Cartridge, fasten the new Enviropure® Charcoal Filter to the new Medi-Filter® Cartridge. Return the filters to the unit.



5. Replace the top motor assembly.



6. Place the unit on its side to secure the retaining nut on the bottom of the unit. Return the unit to its upright position to resume use.

# Troubleshooting Guide

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Condition	Possible Cause	Corrective Action
Green <b>Power On Indicator</b> (leaf) on front panel will not illuminate.	Control panel is not supplied with power, or control panel is defective.	<ul style="list-style-type: none"><li>• <b>Make sure power switch is in the ON position.</b></li><li>• <b>Unit requires service.</b></li></ul>
Red <b>Filter Replacement Indicator</b> is flashing.	Time to order replacement filter.	<ul style="list-style-type: none"><li>• <b>See Filter Replacement Instructions.</b></li></ul>
Red <b>Filter Replacement Indicator</b> is illuminated.	Time to replace filter and reset timer.	<ul style="list-style-type: none"><li>• <b>This is a normal operating condition, see Filter Replacement Instructions.</b></li></ul>

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# Warranty

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Health-Mor warrants the Defender® room air cleaner to be free of defects in materials and workmanship for two years from the date of purchase.

The original purchaser of the Defender® room air cleaner may extend this warranty for successive additional one year periods by purchasing and using during each year the Medi-Filter® Cartridge. There is no limit to the number of successive years that the original purchaser may extend this warranty. Proof of purchase of uninterrupted, successive filter purchases is required for warranty claims beyond the first two years from date of purchase.

This warranty does not cover: (1) damage occurring through misuse or negligence; (2) damage caused by the use of a current or voltage other than stamped on the name plate; (3) damage resulting from service work performed by parties other than Health-Mor or its Authorized Distributors; (4) cost of transportation, pick-up, delivery, house or service calls; and (5) filters.

Health-Mor will repair or replace any defect or defective part under this warranty provided the Defender® is returned, transportation prepaid, with proof of purchase date, to the Authorized Distributor from whom it was purchased or the Quality Assurance Department, Health-Mor, 1 American Road, Suite 1250, Brooklyn, Ohio, 44144 USA. If you need to send your product back to Health-Mor, please first obtain a Return Merchandise Authorization by calling Health-Mor prior to sending in the product. Information regarding other persons authorized to perform warranty service can be obtained by writing to the Consumer Relations Department, Health-Mor, at the address listed above or by calling 440-846-7800 (800-344-1840 in North America). If the Defender® or part is found on inspection to be defective in material or workmanship, it will be repaired or replaced at the option of Health-Mor and returned to the sender, freight or postage collect. No reimbursement will be made for replacement of defective parts or service performed during the warranty period if done by anyone other than the Authorized Distributor from whom the Defender® was purchased or by Health-Mor, without having obtained written authorization from Health-Mor.

This warranty is null and void and of no effect unless the Defender® was purchased from an Authorized Distributor; and the manufacturer's serial number for the Defender® has not been changed, defaced or removed.

Any repair or replacement of a defect or a defective part under this warranty will be warranted for one year or until the end of the original warranty period, whichever is longer.

There is no other express warranty applicable to the Defender®. Implied warranties, including warranties of merchantability and fitness for a particular purpose, are limited in duration to the period of time during which the express warranty given herein is in effect. All consequential or other damages resulting from a breach of this warranty are excluded from coverage under this warranty.

Some states do not allow limitations on how long an implied warranty lasts, or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

Health-Mor does not assume any additional liability.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state.